

TECHNOLOGY

Technology Competence

Inkjet Technology

The inkjet technology is available for saving the material cost innovatively by reducing the processing steps in the mass production. The inkjet technology has been highly spotlighted as a key for the success of display industry while the cost reduction is highly demanded due to the highly improving display industry. The uniform jetting technology is essential to adopt the inkjet technology to the display.



01 Uniform jetting function

Realized the best technology in the world for the position, amount and speed of the ink.



02 Pressure deviation improvement

The micro-processor and in-house developed firmware were mounted out of the traditional analogue type.
The pressure deviation was improved by 70% or higher ($\pm 15\text{pa} \rightarrow \pm 4\text{pa}$) owing to adopting the digital type.

Core Technology



Precise pressure control

The pressure controller of Gosan Tech blocks the excessive or clogging phenomenon of the ink inside the nozzle, and plays the instrumental role in improving **the position accuracy and drop uniformity.**



Ink circulation agitator

The ink circulation agitator makes the ink with less dispersion stability possible for the precise jetting regardless of characteristics of the ink by controlling the fluidity of the ink, improving the disadvantage of the inkjet printing depending generally on the ink. It realizes for the ink with less dispersion stability to circulate and supply while keeping the meniscus (Balancing state) on the nozzle cross section.

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Inkjet Printer

Inkjet Head Module

Circulation Reservoir

Pressure Controller

World Best Industrial Inkjet Solution

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The global top in next generation display industry, Republic of Korea
We will take off further jointly with the inkjet technology of Gosan Tech. www.gosan.kr

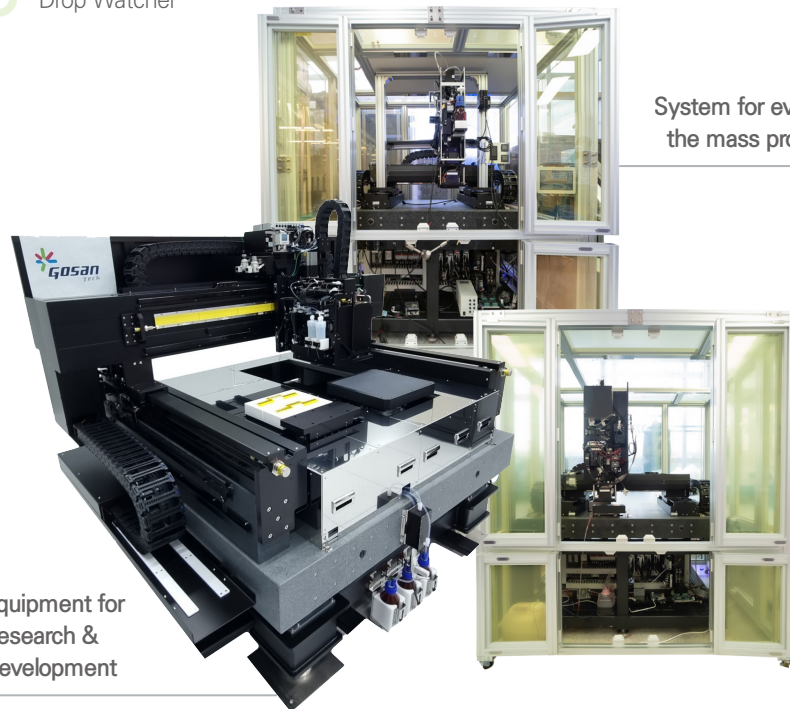
PRODUCT

Inkjet Printing System

Inkjet Printing System

Available options

- Panel size adjustable
- Shaft control and control precision
- Maintenance module
- Drop Watcher



System for evaluating the mass production

Equipment for Research & Development

PRODUCT

Inkjet Module

Head Module

It is a product maximized in its mass production convenience by clustering the head modules which are the core in inkjet system configuration. It serves the multiple functions of the circulation, supply and jetting of the ink.

- Miniaturization of head re-cycling system
- Easy attaching/detaching
- High re-mounting precision
- Available for mounting the heads in variety
- Available for using the UV, oil and water based ink
- Customizing



SPECIFICATION

D x W x H	Weight	Drop Volume
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203 x 123 x 450(mm) 5.5(kg), @dry 6~80pl

※ Size changeable

Inkjet Pressure Controller

It is a micro pressure unit controlling the meniscus and purge pressure in high precision at the inkjet printing.

- Available for adjusting control range of positive and negative pressure
- High negative pressure control precision



SPECIFICATION

D x W x H	Weight	Pressure Range	
85 x 180 x 212 (mm)	2(kg)	Purge : 0~200kPa	Meniscus : -50 ~ 0 kPa

※ Available for order making in the demanded pressure control range

Ink Delivery System

- Circulating agitation function mounted
- Possessed the circulating models in variety
- Customizing such as the material, shape and size

